

Fig. S1: $1/R(dR/d\lambda)$ versus λ of $[(\text{C}_2\text{H}_5)_4\text{N}]\text{FeCl}_4$ powder.

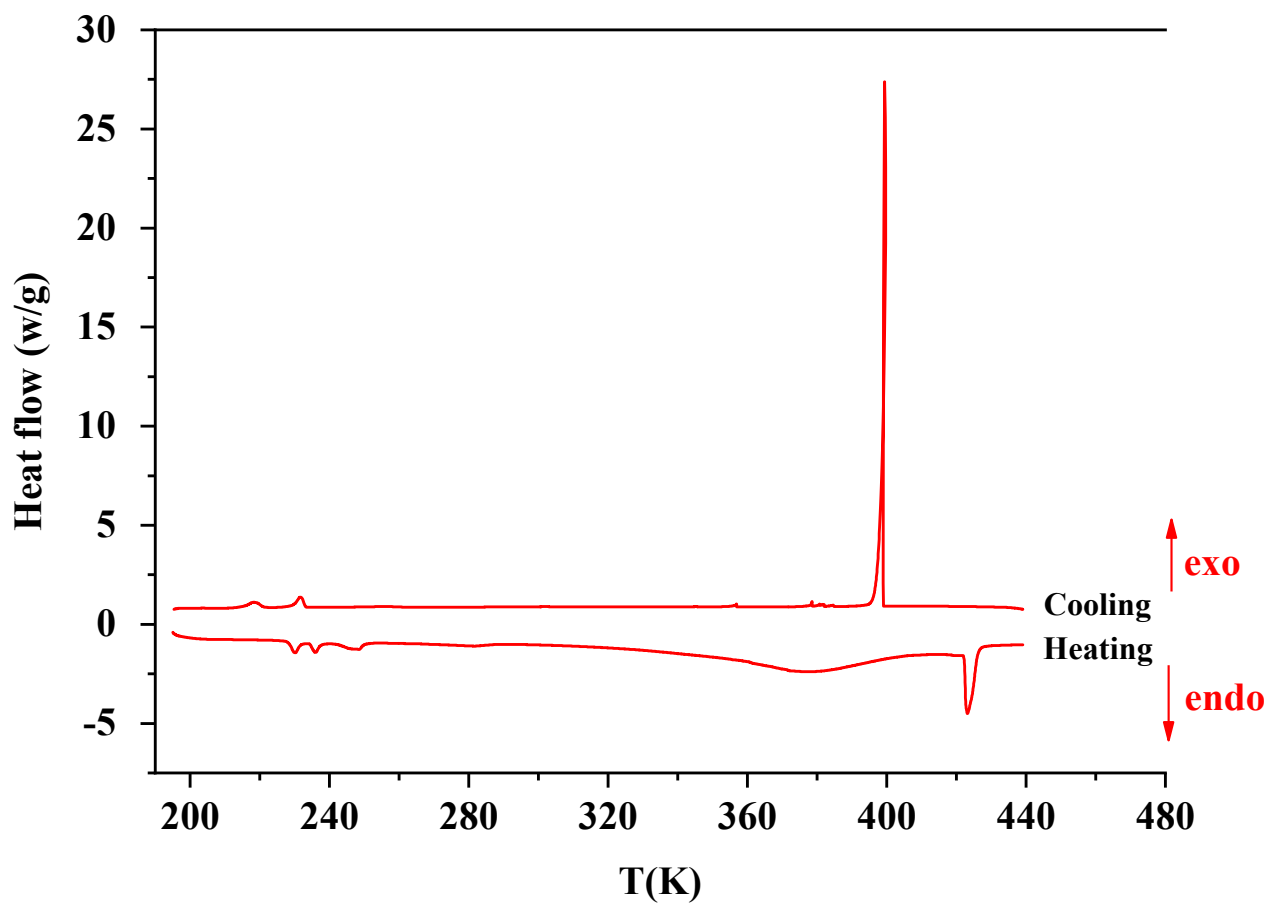


Fig. S2: First heating/cooling run between 193 and 443 K of the $[(C_2H_5)_4N]FeCl_4$ compound.

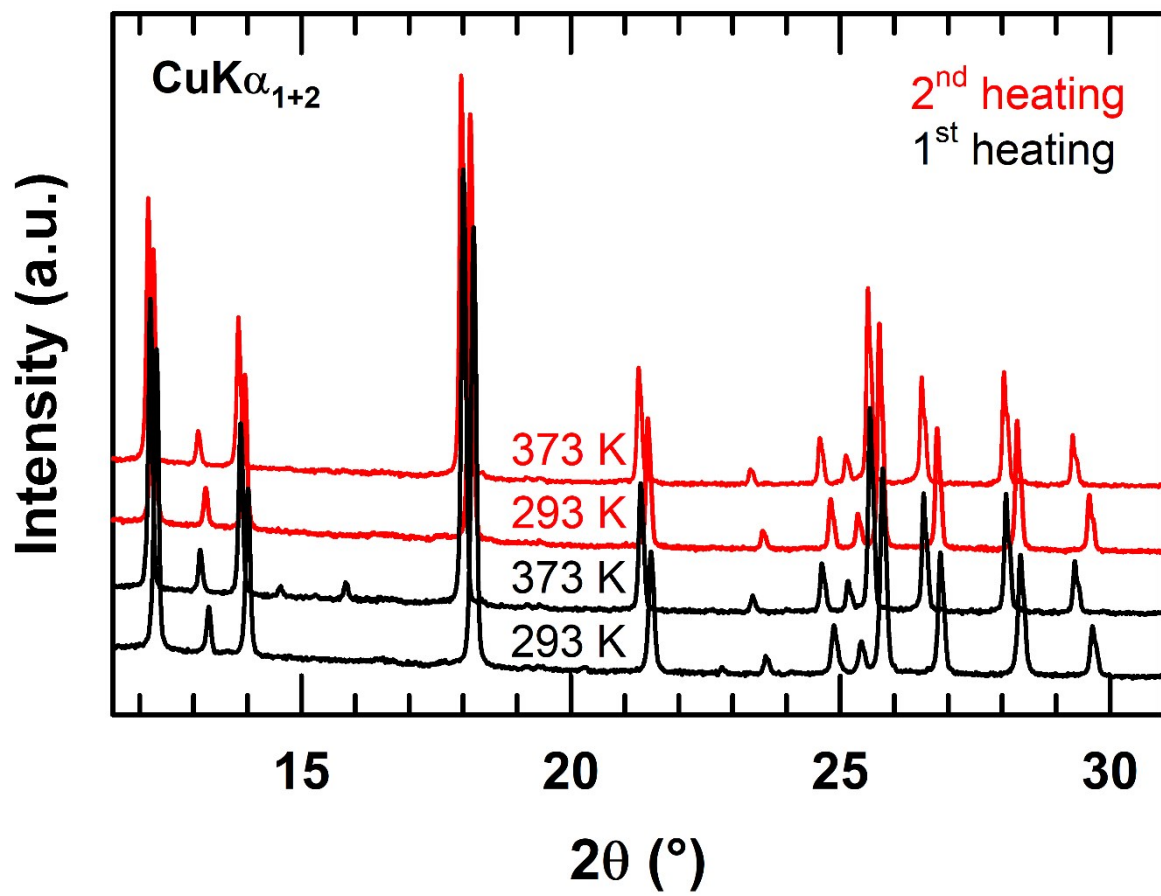


Fig. S3: X-ray powder diffraction at 293 and 373 K during two heating and cooling runs.

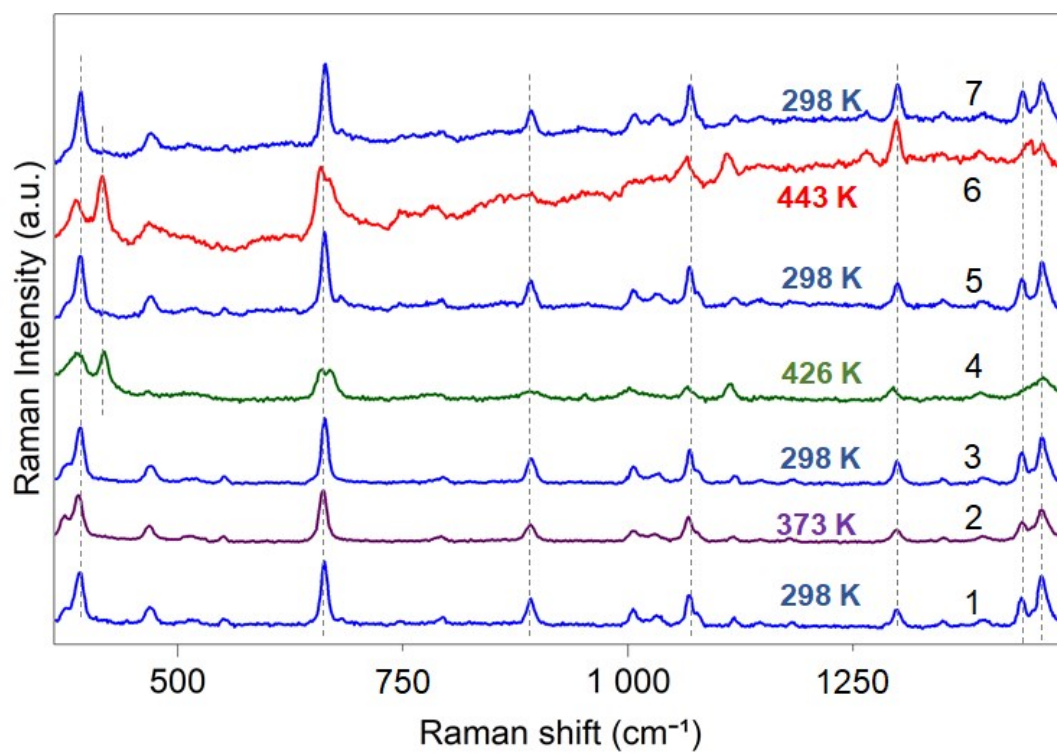


Fig. S5: Raman spectra before and after heating to 373, 426 and 443 K of $[(C_2H_5)_4N]FeCl_4$ compound.